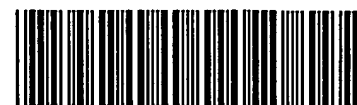# RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _____10/664, 234 A_____

Source: _____JFW16_____

Date Processed by STIC: _____08/31/2006_____

ENTERED

IFW16

<pre>
          RAW SEQUENCE LISTING   DATE: 08/31/2006
          PATENT APPLICATION: US/10/664,234A   TIME: 09:15:52

          Input Set : A:\3240-105.ST25.txt
          Output Set: N:\CRF4\08312006\J664234A.raw

    3 <110> APPLICANT: Ruan, Yijun
    4   Patrick, Ng
    5   Chialin, Wei
    7 <120> TITLE OF INVENTION: Method for Gene Identification Signature (GIS) Analysis
    9 <130> FILE REFERENCE: 3240-105
   11 <140> CURRENT APPLICATION NUMBER: 10/664,234A
   12 <141> CURRENT FILING DATE: 2003-09-17
   14 <160> NUMBER OF SEQ ID NOS: 29
   16 <170> SOFTWARE: PatentIn version 3.3
   18 <210> SEQ ID NO: 1
   19 <211> LENGTH: 33
   20 <212> TYPE: DNA
   21 <213> ORGANISM: Artificial
   23 <220> FEATURE:
   24 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
   27 <220> FEATURE:
   28 <221> NAME/KEY: misc_feature
   29 <222> LOCATION: (1)..(33)
   30 <223> OTHER INFORMATION: n is a,c,g, or t
   32 <220> FEATURE:
   33 <221> NAME/KEY: misc_feature
   34 <222> LOCATION: (1)..(33)
   35 <223> OTHER INFORMATION: v is a,c,g
   37 <400> SEQUENCE: 1
W--> 38 gagctccttc tggagttttt tttttttttt tvn   33
   41 <210> SEQ ID NO: 2
   42 <211> LENGTH: 30
   43 <212> TYPE: DNA
   44 <213> ORGANISM: Artificial
   46 <220> FEATURE:
   47 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
   50 <220> FEATURE:
   51 <221> NAME/KEY: misc_feature
   52 <222> LOCATION: (1)..(30)
   53 <223> OTHER INFORMATION: n is a,t,c or g
   55 <400> SEQUENCE: 2
W--> 56 aattcgcggc cgcttggatc cgacnnnnnn   30
   59 <210> SEQ ID NO: 3
   60 <211> LENGTH: 20
   61 <212> TYPE: DNA
   62 <213> ORGANISM: Artificial
   64 <220> FEATURE:
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65 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning vector

RAW SEQUENCE LISTING   DATE: 08/31/2006
PATENT APPLICATION: US/10/664,234A   TIME: 09:15:52

Input Set : A:\3240-105.ST25.txt
Output Set: N:\CRF4\08312006\J664234A.raw

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    67 <400> SEQUENCE: 3
    68 gtcggatcca agcggccgcg                                          20
    71 <210> SEQ ID NO: 4
    72 <211> LENGTH: 30
    73 <212> TYPE: DNA
    74 <213> ORGANISM: Artificial
    76 <220> FEATURE:
    77 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
    80 <220> FEATURE:
    81 <221> NAME/KEY: misc_feature
    82 <222> LOCATION: (1)..(30)
    83 <223> OTHER INFORMATION: n is a,t,c or g
    85 <400> SEQUENCE: 4
W--> 86 aattcgcggc cgcttggatc cgacgnnnnn                              30
    89 <210> SEQ ID NO: 5
    90 <211> LENGTH: 19
    91 <212> TYPE: DNA
    92 <213> ORGANISM: Artificial
    94 <220> FEATURE:
    95 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
    97 <400> SEQUENCE: 5
    98 tcgacccagg atccaactt                                           19
   101 <210> SEQ ID NO: 6
   102 <211> LENGTH: 13
   103 <212> TYPE: DNA
   104 <213> ORGANISM: Artificial
   106 <220> FEATURE:
   107 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
   110 <220> FEATURE:
   111 <221> NAME/KEY: misc_feature
   112 <222> LOCATION: (1)..(1)
   113 <223> OTHER INFORMATION: phosporylation
   115 <400> SEQUENCE: 6
   116 gttggatcct ggg                                                 13
   119 <210> SEQ ID NO: 7
   120 <211> LENGTH: 17
   121 <212> TYPE: DNA
   122 <213> ORGANISM: Artificial
   124 <220> FEATURE:
   125 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
   127 <400> SEQUENCE: 7
   128 gtaaaacgac ggccagt                                             17
   131 <210> SEQ ID NO: 8
   132 <211> LENGTH: 19
   133 <212> TYPE: DNA
   134 <213> ORGANISM: Artificial
   136 <220> FEATURE:
   137 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
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139 <400> SEQUENCE: 8

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                    RAW SEQUENCE LISTING            DATE: 08/31/2006
                    PATENT APPLICATION:  US/10/664,234A    TIME: 09:15:52

                    Input Set : A:\3240-105.ST25.txt
                    Output Set: N:\CRF4\08312006\J664234A.raw

    140 ggaaacagct atgaccatg                                          19
    143 <210> SEQ ID NO: 9
    144 <211> LENGTH: 20
    145 <212> TYPE: DNA
    146 <213> ORGANISM: Artificial
    148 <220> FEATURE:
    149 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
    151 <400> SEQUENCE: 9
    152 taatacgact cactataggg                                         20
    155 <210> SEQ ID NO: 10
    156 <211> LENGTH: 22
    157 <212> TYPE: DNA
    158 <213> ORGANISM: Artificial
    160 <220> FEATURE:
    161 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
    163 <400> SEQUENCE: 10
    164 gatgtgctgc aaggcgatta ag                                      22
    167 <210> SEQ ID NO: 11
    168 <211> LENGTH: 23
    169 <212> TYPE: DNA
    170 <213> ORGANISM: Artificial
    172 <220> FEATURE:
    173 <223> OTHER INFORMATION: oligonucleotide primer with homology to bacterial cloning
vector
    175 <400> SEQUENCE: 11
    176 agcggataac aatttcacac agg                                     23
    179 <210> SEQ ID NO: 12
    180 <211> LENGTH: 48
    181 <212> TYPE: DNA
    182 <213> ORGANISM: Artificial
    184 <220> FEATURE:
    185 <223> OTHER INFORMATION: Oligionucleotide with homolgy to a bacteria cloning vector
    188 <220> FEATURE:
    189 <221> NAME/KEY: misc_feature
    190 <222> LOCATION: (1)..(48)
    191 <223> OTHER INFORMATION: n is a,t,c or g
    193 <400> SEQUENCE: 12
W--> 194 gatccgacnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnaagttg              48
    197 <210> SEQ ID NO: 13
    198 <211> LENGTH: 48
    199 <212> TYPE: DNA
    200 <213> ORGANISM: Artificial
    202 <220> FEATURE:
    203 <223> OTHER INFORMATION: Oligionucleotide with homolgy to a bacteria cloning vector
    206 <220> FEATURE:
    207 <221> NAME/KEY: misc_feature
    208 <222> LOCATION: (1)..(48)
    209 <223> OTHER INFORMATION: n is a,t,c or g
    211 <400> SEQUENCE: 13
W--> 212 gatccaactt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnngtcg              48
```

RAW SEQUENCE LISTING   DATE: 08/31/2006
PATENT APPLICATION: US/10/664,234A   TIME: 09:15:52

Input Set : A:\3240-105.ST25.txt
Output Set: N:\CRF4\08312006\J664234A.raw

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     217 <212> TYPE: DNA
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     220 <220> FEATURE:
     221 <223> OTHER INFORMATION: Oligionucleotide primer with homolgy to a bacteria cloning
vector
     223 <400> SEQUENCE: 14
     224 cgctctcctg taccgaccct gccgcttac                                    29
     227 <210> SEQ ID NO: 15
     228 <211> LENGTH: 29
     229 <212> TYPE: DNA
     230 <213> ORGANISM: Artificial
     232 <220> FEATURE:
     233 <223> OTHER INFORMATION: Oligionucleotide primer with homolgy to a bacteria cloning
vector
     235 <400> SEQUENCE: 15
     236 aactatcgtc ttgagaccaa cccggtaag                                    29
     239 <210> SEQ ID NO: 16
     240 <211> LENGTH: 24
     241 <212> TYPE: DNA
     242 <213> ORGANISM: Artificial
     244 <220> FEATURE:
     245 <223> OTHER INFORMATION: Oligionucleotide adapter with homolgy to a bacteria cloning
     246        vector
     248 <400> SEQUENCE: 16
     249 aattctcgag cggccgcgat atcg                                        24
     252 <210> SEQ ID NO: 17
     253 <211> LENGTH: 24
     254 <212> TYPE: DNA
     255 <213> ORGANISM: Artificial
     257 <220> FEATURE:
     258 <223> OTHER INFORMATION: Oligionucleotide adapter with homolgy to a bacteria cloning
     259        vector
     261 <400> SEQUENCE: 17
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     265 <210> SEQ ID NO: 18
     266 <211> LENGTH: 3404
     267 <212> TYPE: DNA
     268 <213> ORGANISM: Artificial
     270 <220> FEATURE:
     271 <223> OTHER INFORMATION: bacterial cloning vector
     273 <400> SEQUENCE: 18
     274 gggcgaattc tcgagcggcc gcggatccga cgagagcgcc tgcgtacggc tcgccgcggt    60
     276 ggctggcgct acttcggagg agcccgacgc ggcgcggtcg tttttataca ttcccgcgcg   120
     278 gaggcaacgg aagggcgggg cgcctcgtga ttaggccgcg gaggtcacag gctctgttgt   180
     280 catgaaggtg aaaattaaat gttggaatgg tgtggccact tggctctggg tagccaatga   240
     282 tgagaactgc ggcatctgca ggatggcgtt taatggctgc tgtccagact gtaaggtgcc   300
     284 tggtgatgac tgcccccctcg tgtggggaca gtgctcccac tgcttccaca tgcactgcat   360
     286 cctcaagtgg ctgaatgcgc agcaggtgca gcagcactgc cccatgtgtc gccaggagtg   420
     288 gaagttcaaa gagtgaagcc cgtgccgtgc cacttccctc tcctgtgctg tgccaggctc   480
```

RAW SEQUENCE LISTING   DATE: 08/31/2006
PATENT APPLICATION: **US/10/664,234A**   TIME: 09:15:52

Input Set : **A:\3240-105.ST25.txt**
Output Set: **N:\CRF4\08312006\J664234A.raw**

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290 agccccttcc ctccctcccc tcccccagat acagcacccc aagtcccctc cacacagcac  540
292 agtggtgccc agagatctcg gtctgtgccg gggacaagga tgctttctgt ttggctggga  600
294 caaggttgaa aggagctttg ctgactgttt tgttttccca tcacattgac actttattca  660
296 ataagtaaaa ctcattacag ttccaagtcg gatcctgggt cgacctgcag gcatgcaagc  720
298 ttgagtattc tatagtgtca cctaaatagc ttggcgtaat catggtcata gctgtttcct  780
300 gtgtgaaatt gttatccgct cacaattcca cacaacatac gagccggaag cataaagtgt  840
302 aaagcctggg gtgcctaatg agtgagctaa ctcacattaa ttgcgttgcg ctcactgccc  900
304 gctttccagt cgggaaacct gtcgtgccag ctgcattaat gaatcggcca cgcgcgggg  960
306 agaggcggtt tgcgtattgg gcgctcttcc gcttcctcgc tcactgactc gctgcgctcg  1020
308 gtcgttcggc tgcggcgagc ggtatcagct cactcaaagg cggtaatacg gttatccaca  1080
310 gaatcagggg ataacgcagg aaagaacatg tgagcaaaag gccagcaaaa ggccaggaac  1140
312 cgtaaaaagg ccgcgttgct ggcgtttttc gataggctcc gcccccctga cgagcatcac  1200
314 aaaaatcgac gctcaagtca gaggtggcga aacccgacag gactataaag ataccaggcg  1260
316 tttccccctg gaagctccct cgtgcgctct cctgtaccga ccctgccgct taccggatac  1320
318 ctgtccgcct ttctcccttc gggaagcgtg gcgctttctc atagctcacg ctgtaggtat  1380
320 ctcagttcgg tgtaggtcgt tcgctccaag ctgggctgtg tgcacgaacc ccccgttcag  1440
322 cccgaccgct gcgccttatc cggtaactat cgtcttgaga ccaacccggt aagacacgac  1500
324 ttatcgccac tggcagcagc cactggtaac aggattagca gagcgaggta tgtaggcggt  1560
326 gctacagagt tcttgaagtg gtggcctaac tacggctaca ctagaaggac agtatttggt  1620
328 atctgcgctc tgctgaagcc agttaccttc ggaaaaagag ttggtagctc ttgatccggc  1680
330 aaacaaacca ccgctggtag cggtggtttt tttgtttgca agcagcagat tacgcgcaga  1740
332 aaaaaaggat ctcaagaaga tcctttgatc ttttctacgg ggtctgacgc tcagtggaac  1800
334 gaaaactcac gttaagggat tttggtcatg agattatcaa aaaggatctt cacctagatc  1860
336 cttttaaatt aaaaatgaag ttttaaatca atctaaagta tatatgagta aacttggtct  1920
338 gacagttacc aatgcttaat cagtgaggca cctatctcag cgatctgtct atttcgttca  1980
340 tccatagttg cctgactccc cgtcgtgtag ataactacga tacgggaggg cttaccatct  2040
342 ggccccagtg ctgcaatgat accgcgagac ccacgctcac cggctccaga tttatcagca  2100
344 ataaaccagc cagccggaag ggccgagcgc agaagtggtc ctgcaacttt atccgcctcc  2160
346 atccagtcta ttaattgttg ccgggaagct agagtaagta gttcgccagt taatagtttg  2220
348 cgcaacgttg ttggcattgc tacaggcatc gtggtgtcac gctcgtcgtt tggtatggct  2280
350 tcattcagct ccggttccca acgatcaagg cgagttacat gatcccccat gttgtgcaaa  2340
352 aaagcggtta gctccttcgg tcctccgatc gttgtcagaa gtaagttggc cgcagtgtta  2400
354 tcactcatgg ttatggcagc actgcataat tctcttactg tcatgccatc cgtaagatgc  2460
356 ttttctgtga ctggtgagta ctcaaccaag tcattctgag aatagtgtat gcggcgaccg  2520
358 agttgctctt gcccggcgtc aatacgggat aataccgcgc cacatagcag aactttaaaa  2580
360 gtgctcatca ttggaaaacg ttcttcgggg cgaaaactct caaggatctt accgctgttg  2640
362 agatccagtt cgatgtaacc cactcgtgca cccaactgat cttcagcatc ttttactttc  2700
364 accagcgttt ctgggtgagc aaaaacagga aggcaaaatg ccgcaaaaaa gggaataagg  2760
366 gcgacacgga aatgttgaat actcatactc ttcctttttc aatattattg aagcatttat  2820
368 cagggttatt gtctcatgag cggatacata tttgaatgta tttagaaaaa taaacaaata  2880
370 ggggttccgc gcacatttcc ccgaaaagtg ccacctgacg tctaagaaac cattattatc  2940
372 atgacattaa cctataaaaa taggcgtatc acgaggccct ttcgtctcgc gcgtttcggt  3000
374 gatgacggtg aaaacctctg acacatgcag ctcccggaga cggtcacagc ttgtctgtaa  3060
376 gcggatgccg ggagcagaca agcccgtcag ggcgcgtcag cgggtgttgg cgggtgtcgg  3120
378 ggctggctta actatgcggc atcagagcag attgtactga gagtgcacca tatgcggtgt  3180
380 gaaataccgc acagatgcgt aaggagaaaa taccgcatca ggcgccattc gccattcagg  3240
382 ctgcgcaact gttgggaagg gcgatcggtg cgggcctctt cgctattacg ccagctggcg  3300
384 aaagggggat gtgctgcaag gcgattaagt tgggtaacgc cagggttttc ccagtcacga  3360
386 cgttgtaaaa cgacggccag tgaattgtaa tacgactcac tata                     3404
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/31/2006
PATENT APPLICATION: US/10/664,234A   TIME: 09:15:53

Input Set : A:\3240-105.ST25.txt
Output Set: N:\CRF4\08312006\J664234A.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 33
Seq#:2; N Pos. 25,26,27,28,29,30
Seq#:4; N Pos. 26,27,28,29,30
Seq#:12; N Pos. 9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28
Seq#:12; N Pos. 29,30,31,32,33,34,35,36,37,38,39,40,41,42
Seq#:13; N Pos. 11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30
Seq#:13; N Pos. 31,32,33,34,35,36,37,38,39,40,41,42,43,44

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,27,28
Seq#:29

VERIFICATION SUMMARY   DATE: 08/31/2006
PATENT APPLICATION: **US/10/664,234A**   TIME: 09:15:53

Input Set : **A:\3240-105.ST25.txt**
Output Set: **N:\CRF4\08312006\J664234A.raw**

```
L:38 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:86 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0
L:194 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0
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